



Interagency Ecological Program 2024 Work Plan Element Delta Flows Network

Project Manager and Affiliation

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Costs (thousands) and Funding Sources

\$861 (DWR-DES); \$86 (USGS Matching Funds)



USGS Team preparing for velocity mapping project at the False River monitoring station. Summer 2022. Photo credit – Joseph Hatfield

Description

The Delta Flow Network consists of over 35 flow and water quality monitoring stations located throughout the Sacramento-San Joaquin Delta; eleven of these stations are supported by the DWR-DES through the IEP, many of the remaining stations are supported through a separate agreement with BOR, and are not included in this fact sheet. Data from this network of stations are used by Delta managers and scientists to make decisions and plan for future events, such as climate change, water operations, and restoration projects. In addition, these data are used to calibrate and validate numerical models that are used to predict water levels, flows, and

spatial and temporal evolution of salinity in the Delta. The data also play a significant role in interdisciplinary investigations and will be the foundation for large-scale adaptive management experiments in the future.

Need

The Delta Flow Network is critical to understanding the inflows to and outflows from the Delta. The Delta Flow Network is integral to management decisions regarding the ecosystem as well as the state and federal water projects by providing a foundation for decisions based on knowing both what is happening and why it is happening. These data will be critical as we transition out of several years of critical drought into years with significant high flows and El Nino conditions forecast in the future.

Objectives

- Document hydrodynamic change (e.g., status and trends) at a variety of spatial scales (e.g., within channel scale, regional scale, Delta-wide scale)
- Support process-based understanding of Delta systems and the role that hydrodynamics plays in those systems.

Schedule of Milestones

These data are collected in real-time throughout the year. Data are collected every 15 minutes and uploaded to CDEC and NWIS Web hourly.

- Realtime: Time-Series Data sent to CDEC and NWIS-Web

Project Products and Publications

Not provided.